

FOUNDATION RECOMMENDATIONS

PROJECT 17BP.7.R.32

DESCRIPTION Bridge No. 50 on SR 1104

TIP NO. SF-780050

(Lemons Rd.) over Hogan's Creek

COUNTY Rockingham

STATION 12 + 64.00 -L-

INITIALS DATE

DESIGN

GCB

6/29/2012

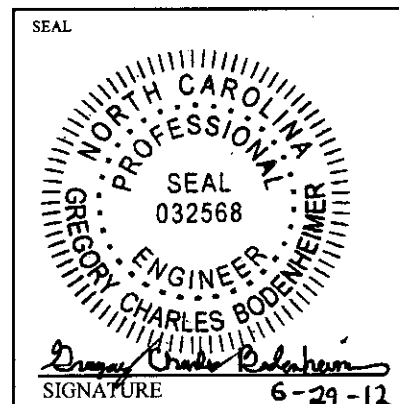
CHECK

DLT

6/29/12

ENW

7/2/12



	STATION	FOUNDATION TYPE	FACTORED RESISTANCE	MISCELLANEOUS DETAILS
END BENT 1	12 + 19.00 -L-	Cap on HP 12 X 53 Steel Piles	130 Tons/Pile	Bottom of Cap Elev. = 788.80 ft Average Pile Length = 30 ft +/- Number of Piles = 5
END BENT 2	13 + 09.00 -L-	Cap on HP 12 X 53 Steel Piles	130 Tons/Pile	Bottom of Cap Elev. = 787.90 ft Average Pile Length = 30 ft +/- Number of Piles = 5

FOUNDATION RECOMMENDATION NOTES ON PLANS

1. For piles, see Section 450 of the Standard Specifications.
2. Piles at End Bents No. 1 and 2 are designed for a factored resistance of 130 tons per pile.
3. Drive piles at End Bents No. 1 and 2 to a required driving resistance of 220 tons per pile.

FOUNDATION RECOMMENDATION COMMENTS

1. Please advise our office, if the factored resistance is less than the maximum factored axial load.
2. The average factored axial load at End Bents No. 1 and 2 is 127 tons per pile.
3. Sub Regional Tier Bridge approach fills are required at End Bents 1 and 2.
4. 1.5:1 (H:V) slope for end bents with Class II rip rap to berm is ok.
5. No waiting period is required before beginning any work for end bent construction after completion of the embankment at each end bent.

PILE PAY ITEMS

(Revised 6/20/12)

WBS ELEMENT 17BP.7.R.32
TIP NO. SF-780050
COUNTY Rockingham
STATION 12 + 64.00 -L-

DATE 6/29/12
DESIGNED BY GCB
CHECKED BY DLT

DESCRIPTION Bridge No. 50 on SR 1104 (Lemons Rd.) over Hogan's Creek

NUMBER OF BENTS WITH PILES _____
NUMBER OF PILES PER BENT _____
NUMBER OF END BENTS WITH PILES _____
NUMBER OF PILES PER END BENT _____

Only required for "Predrilling
for Piles" & "Pile
Excavation" pay items

Bent # or End Bent #	PILE PAY ITEM QUANTITIES						PDA Testing (per each)
	Steel Pile Points (yes/no)	Pipe Pile Plates (yes/no/maybe)	Predrilling For Piles (per linear ft)	Pile Redrives (per each)	Pile Excavation (per linear ft)		
					In Soil	Not In Soil	
End Bent 1	no	no					<div></div>
End Bent 2	no	no					
TOTALS			0	0	0	0	0

Notes:

Blanks or "no" represent quantity of zero.

If steel pile points are required, calculate quantity of "Steel Pile Points" as equal to the number of steel piles.

If pipe pile plates are or may be required, calculate the quantity of "Pipe Pile Plates" as equal to the number of pipe piles.

Show quantity of "PDA Testing" on the plans as total only.

If quantity of "PDA Testing" is 3 or less, reference "Pile Driving Criteria" provision in PDA notes on plans and include "Pile Driving Criteria" provision in the contract.